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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,550	05/02/2002	Eddy B. Boskamp	GEMS8081.091 9994	
27061 7	1590 10/03/2003		EXAMINER	
ZIOLKOWSKI PATENT SOLUTIONS GROUP, LLC (GEMS) 14135 NORTH CEDARBURG ROAD			LIN, JEOYUH	
MEQUON, WI 53097			ART UNIT	PAPER NUMBER
,			3737	
			DATE MAILED: 10/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary 10,063,550 BOSKAMP, EDDY B.			Application No.	Applicant(s)			
Jesyth Lin 3737 3	•		10/063,550	BOSKAMP, EDDY B.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be windled based the provision of 3 of PR 1.13(s). In an event, however, may a reply be timely filled after 50 (i) MONTHS from the mailing date of this communication. Extensions of time may be windled based the provision of 3 of PR 1.13(s). In an event, however, may a reply be timely filled after 50 (ii) MONTHS from the mailing date of this communication. Failure to reply visibility to the provision of the pr	<i>)</i>	Office Action Summary	Examiner	Art Unit			
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3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. 6) Other:	2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- -Claims 1, 2, 4, 6, 8, 9, 11, 12, 14, 15, and 17-22 are rejected under 35
- U.S.C. 102(b) as being anticipated by Murakami et al. (US 5,384,536)
- -Murakami teaches an MR imager with a wireless RF module, (Figure 2, item 1) comprising the following:
 - -Modulator modulating carrier signal with an MR signal in an RF coil. (Column 4, lines 39-67)
 - -Transmitter (Same as above).
 - -Wireless receiver that receivers modulated for subsequent data processing and image reconstruction. (Column 5, lines 10-15)
 - -Modulator amplitude modulates the carrier signal, as in claim 2. (Column 5, lines 15-20)
 - -Remote receiver from MR apparatus, as in 4.
 - -Transmitter transmitting the modulated signal out of bore of MRI, as in 6 and 11. (Column 5, lines 5-10)
 - -Receiver wirelessly connected to the transmitter and configured to receive the modulated signal transmitted by the transmitter, as in 12.

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-Receiver at he end of the bore, as in 14. (Column 5, lines 5-19)

- -Rechargeable battery, as in 15 and 21. (Column 6, lines 37-54)
- -Rectified signal, which is inherent during signal processing, as in 20. (Column 5, line 15)
- -Means to improve SNR, through the use of filters as in 22. (Column 6, lines 10-15)

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- -Claims 3, 9, 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murakami et al., as applied to claim 1 and 8 above, and further in view of Gadzinski (US 2001/0051766 A1).

Murakami meets all the claims further including a pre-amplifier, an oscillator that would be inherent in any rf transmitter (Figure 8, items 9 and 26), except that it fails to teach a modulator that amplitude modulates a carrier signal frequency between 300 MHz-3GHz (UHF range), preferably at 900 MHz, as claim 16 discloses. Gadzinski teaches signal transmission of MR signals at 2.4 Ghz (Paragraph 46). It would have been a matter of design choice to one having ordinary skill in the art at the time the invention was made to adapt the Gadzinski's teaching to Murakami's device such that more data could be transmitted wirelessly, with less noise interference.



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Allowable Subject Matter

3. Claims 5, 7, and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

-Leussler (US 2003/0135110 A1) teaches a catheter for use in a magnetic resonance imaging apparatus, comprising a wireless RF transmission antenna, an oscillator for generating carrier rf signal (Paragraph 40)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeoyuh Lin whose telephone number is (703) 306-5990. The examiner can normally be reached on m-f, 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Ruhl can be reached on (703) 308-2262. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

.IYI.

September 22, 2003